## WHAT IS CLAIMED IS:

- 1. A system for exerting force on an exterior treatment portion of a user's body, comprising:
  - a covering member for covering the treatment portion; and
  - an electroactive polymer (EAP) actuator operably connected to the covering member.
- 2. The system of claim 1 wherein the EAP actuator is rigidly connected to the covering member.
- 3. The system of claim 2 wherein the EAP actuator is connected to the covering member by adhesive.
- 4. The system of claim 2 wherein the EAP actuator is stitched to the covering member.
- 5. The system of claim 2 wherein the EAP actuator is woven into the covering member.
- 6. The system of claim 1 and further comprising:

  a controller operably coupled to the EAP

  actuator to provide a drive signal to drive

  actuation of the EAP actuator.
- 7. The system of claim 6 wherein the covering member is flexible such that actuation of the EAP actuator drives deformation of the covering member.

- 8. The system of claim 7 and further comprising: a heart sensor sensing a sinus rhythm of the heart and providing a heart sensor signal indicative of the sinus rhythm.
- 9. The system of claim 8 wherein the controller is configured to provide the drive signal based on the heart sensor signal.
- 10. The system of claim 9 and further comprising:
   a feedback component sensing a feedback
   characteristic and providing a feedback
   signal indicative of the sensed feedback
   characteristic.
- 11. The system of claim 10 wherein the controller is configured to provide the drive signal based on the feedback signal.
- 12. The system of claim 11 wherein the feedback component comprises:
  - a metabolic sensor sensing a metabolic characteristic and providing the feedback signal based on the metabolic characteristic.
- 13. The system of claim 11 wherein the feedback component comprises:
  - a blood flow sensor.

- 14. The system of claim 11 wherein the feedback component comprises:
  - a blood pressure sensor.
- 15. The system of claim 1 wherein the covering member comprises a garment.
- 16. The system of claim 6 wherein the controller is configured to provide the drive signal to exert counterpulsation force on the treatment portion.
- 17. The system of claim 1 and further comprising: a plurality of EAP actuators operably connected to the covering member.
- 18. A counterpulsation apparatus, comprising: a garment; and an electroactive polymer (EAP) actuator connected to the garment.
- 19. The counterpulsation apparatus of claim 18 and further comprising:
  - a plurality of EAP actuators connected to the garment.
- 20. The counterpulsation apparatus of claim 19 wherein the garment is formed of a fabric material.

- 21. The counterpulsation apparatus of claim 20 wherein the plurality of EAP actuators are woven into the fabric material.
- 22. The counterpulsation apparatus of claim 20 wherein the plurality of EAP actuators are stitched to the fabric material.
- 23. The counterpulsation apparatus of claim 20 wherein the plurality of EAP actuators are connected to the fabric material with adhesive.
- 24. The counterpulsation apparatus of claim 19 wherein the garment comprises multiple layers of fabric material and wherein the plurality of EAP actuators are disposed between the layers.
- 25. A method of exerting pressure on an external treatment area of a patient, comprising:

providing a garment to cover the treatment area;

- actuating electroactive polymer (EAP) actuators connected to the garment.
- 26. The method of claim 25 and further comprising: sensing a heart beat of the patient and providing a heart beat sensor signal indicative of the sensed heart beat.

- 27. The method of claim 26 and further comprising:
   actuating the EAP actuators to exert
   counterpulsation pressure based on the
   heart beat sensor signal.
- 28. The method of claim 27 and further comprising:
  sensing a biological characteristic indicative
  of an efficaciousness of the
  counterpulsation pressure and providing a
  biological sensor signal indicative of the
  sensed characteristic.
- 29. The method of claim 28 wherein actuating the EAP actuators comprises:

actuating the EAP actuators based on the biological sensor signal.